

Jack N. Feldborg
63 South Gate Drive
Poughkeepsie, NY 12601-5638

July 12, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

Received & Inspected

JUL 18 2011

FCC Mail Room

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

I use GPS during sail boat racing every Sunday to plot courses to marks. I also use my in car GPS to get to places I have not been before and to estimate time and distance to destinations. Please do not allow anything to interfere with this vital navigational aid.

Sincerely,



Jack N. Feldborg
845 462 3547

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FCC Mail Room

Raffaele Perna
61 Amato Circle
Wethersfield, CT 06109-3971

July 12, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

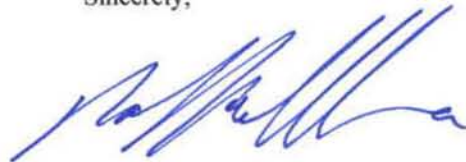
Dear Sirs,

I am an avid boater and fisherman. I travel frequently to Nantucket and Martha's Vineyard and with many ferries on route to the same destinations I go to, having a reliable GPS along with my Radar makes the trip a secure and safe voyage. The consequences that could arise without reliable GPS would be devastating. I have been in fog at time that visibility was down to two or three feet in front of your view. Only God could have helped me with out reliable GPS!

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

Sincerely,



Raffaele Perna
860-841-3912

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FCC Mail Room

Thomas Anfang
15831 SE 171st ST
Renton, WA 98058-8657

July 13, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

GPS is essential for safe passage when fog banks unexpectedly appear during good weather in the Pacific northwest US and Canada.

Sincerely,


Thomas Anfang
4252281141

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FCC Mail Room

James Mosher
16222 River Bend Ct
Williamsport, MD 21795-2154

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Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

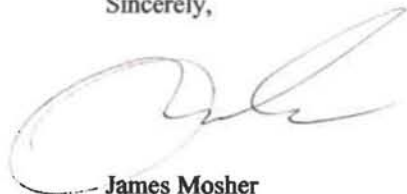
Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Very often, the safety of boaters depends heavily on accurate location information that only a reliable GPS signal may provide. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

Sincerely,



James Mosher
301-466-7465

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J. R. HERBERT

P.O. Box 328 ANDREWS, NORTH CAROLINA 28901
Phone: 828.361.0700 Fax: 828.321.5850 email jrherbert@frontier.com

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July 12, 2011

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FCC Mail Room

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

I often need accurate GPS for night and bad weather navigation. I am concerned that it remain reliable.

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

Sincerely,



Jack Herbert
828.321.9744

pg. 01 of 01

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David and Carolyn Everett
206 Acres Drive
Hamilton Square, NJ 08690-3919

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FCC Mail Room

July 12, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

If you don't think this is important, try being offshore when an unexpected fog rolls in and visibility is less than the length of your boat.

Sincerely,

Carolyn Everett
D. Everett

David and Carolyn Everett
609-587-8322

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FCC Mail Room

Jackson McDonald
200 S Sykes Creek Parkway, #709
Merritt Island, FL 32952-3587

July 13, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. We look to the FCC to protect the integrity of the GPS signal.

GPS is not a mere convenience:

-- it is important for safe navigation;

-- it can mean the difference between life and death in boating emergencies requiring search and rescue by the U.S. Coast Guard or local emergency responders.

Sincerely,



Ambassador Jackson McDonald

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Charles Wiesneth

8834 St. Andrews Dr. • Miramar Beach, Florida 32550-4840 • Phone: 850 622 3323 • Fax: [Your Fax]
E-Mail: cwiesneth@me.com

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FCC Mail Room

Date: Tuesday, July 12, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

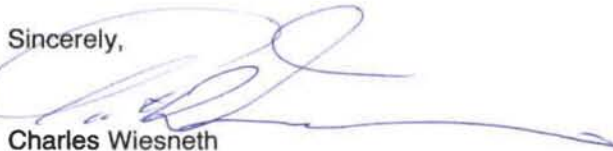
Dear Federal Communications Commission:

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

The safety of my family and other sailor depends on a GPS system of the highest quality and reliability.

Sincerely,



Charles Wiesneth

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Richard Weisman
15011 Bridgeway Ln #108
FT Myers, FL 33919-8453

July 13, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

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JUL 18 2011

FCC Mail Room

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

I have 2 GPS systems aboard our 42' Grand Banks trawler. One on the bridge and one in the pilothouse. We use all these all the time. We travel extensively along the coast of Maine where there is fog and poor visibility much of the hot humid mornings. Using radar and our accurate GPS signal we are able to continue our travels without delay.

LightSquare or any other applicant should only be given permission if it can prove no GPS interference. Please do not allow any legislation or regulation that would imperil this safety system. I can supply numerous documented log examples of problems that have been resolved while using our GPS systems.

Thank you for your attention to this important matter.

Sincerely,

Richard Weisman

Richard Weisman
239-454-2942

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R. J. GRONDIN & SONS
General Contractors

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JUL 18 2011
FCC Mail Room

Thomas Hey
145 Woodville Road
Falmouth, ME 04105-1131

July 13, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

In addition to boater safety, there is another concern that must be noted and it is one that could have a significant economic impact on public spending. Our construction company constructs and maintains roads and underground utilities. At a major cost savings to the public that is reflected in lower bid pricing, we use GPS guided bulldozers and excavators extensively. It is now the industry norm. Please don't send us back to the dark ages where lower productivity means higher construction costs, therefore fewer roads maintained to safe standards.

Sincerely,



Thomas Hey
207 781 5657

Treasurer/CFO

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JUL 18 2011

Walter Cox
FCC Mail Room 73 Courtside Landings Cir
Punta Gorda, FL 33955-1981

July 13, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

I am a user of the GPS system navigating in Florida waters and off-shore to the Bahamas. The security and reliability of that system is a key to safe navigation.

Most Sincerely,



Walter Cox
8434695864

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JUL 18 2011
FCC Mail Room

Paul W. Reid
77 Cotton Bay Rd
Edisto Island, SC 29438-3026

July 13, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

As you consider the conditional approval for LightSquared, I write to ask you to preserve the integrity of the nation's GPS system.

Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

I not only utilize the current GPS system as a recreational resource that makes my time with my family safer, but use it as a navigational aid in the conduct of my Pastoral duties, traveling often in unfamiliar cities and communities. This saves not only time but precious petroleum resources as well.

Sincerely,

Paul W. Reid
(803)943-1491

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Received & Inspected Jonathan Phelps
544 King st
Suwanee, GA 30024-2222

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FCC Mail Room July 12, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

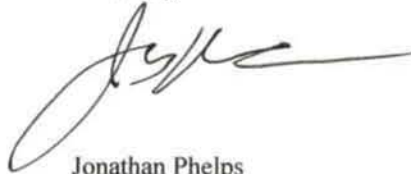
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Sincerely,



Jonathan Phelps

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The Honorable Julius Genachowski
Chairman
U.S. Federal Communications Commission
445 12th Street, SW
Washington, D.C. 20554

Received & Inspected

JUL 18 2011

FCC Mail Room

Subject: **IB Docket Number 11-109**. FCC File No. SAT-Mod-20101118-00239, LightSquared
Subsidiary LLC (LightSquared) Request for Modification of its Authority for an Ancillary Terrestrial
Component

Dear Chairman Genachowski:

I am a Principal Research Engineer at the Georgia Tech Research Institute (GTRI) in Atlanta, GA. GTRI employs over 1500 people who conduct applied research and engineering development for many federal and state government sponsors. GTRI is involved in a significant amount of unmanned vehicle systems research and we rely heavily on GPS for navigation, control, and tracking of our vehicles.

As a member of the unmanned systems community, I am deeply concerned about a current waiver request from LightSquared to operate high-powered terrestrial transmitters on a radio frequency adjacent to the weak satellite-based Global Positioning System (GPS). Independent studies show that LightSquared's terrestrial operations could completely knockout GPS receivers for miles around each transmitter.

Before the Federal Communications Commission grants LightSquared waiver to build tens of thousands of high-powered terrestrial transmitters and use a radio frequency adjacent to GPS, more research and studies must be done.

As you know, all around the world, unmanned systems (air, ground, and maritime) rely on accurate, dependable GPS signals. The lack of a reliable GPS signal poses a serious threat to our public safety and national defense, and the potential expense of retrofitting or replacing affected GPS receivers would truly be an undue burden.

I ask that you take careful consideration of the potential harm LightSquared's proposed plan would have on the emerging field of unmanned systems, not to mention all other users of GPS. Thank you for the opportunity to submit comments for the official record.

Sincerely,



Michael W. Heiges
Principal Research Engineer
Georgia Tech Research Institute
mike.heiges@gtri.gatech.edu
404-407-7197

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Jan Swierzko
1651 East Drive
Point Pleasant Borough, NJ 08742-5117

July 12, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

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JUL 18 2011
FCC Mail Room

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

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Sincerely,



Jan Swierzko
732 899 6984

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John Hamilton, Jr.
3799 Raisner Ct
White Plains, MD 20695-3427

July 12, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

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FCC Mail Room

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

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Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

Upon reading the results of the test to determine any negative effects on the GPS systems, it is important to note the following:

11.2.1.2 GPS Receiver Performance Summary:

Trimble found that High Precision receivers were very susceptible to the LightSquared emissions. They found that the LightSquared emissions prevented their High Precision receiver from tracking at very long ranges from the cell tower. In the case above, the precision receiver was not able to calculate a position in any mode out to 2 km from the tower, at which point the van was turned around, so it is not known for how far the precision GPS denied zone extended.

11.2.1.3 OmniSTAR Receiver Performance Summary

Trimble found extensive interference to the reception of the OmniSTAR signal. Figure 40 notes the dramatic difference with and without the LightSquared emissions. The OmniSTAR tracking is almost completely jammed out to 8.5 km and even out at that range the tracking is significantly degraded.

11.2.2 Deere Summary

With similar objectives to Trimble's, Deere collected an extensive dataset during the Las Vegas testing in order to verify the RF propagation model and test several of their receiver types. Deere also demonstrated the detrimental effect of the LightSquared emissions on their GPS equipment. The Deere report documents clearly how its receivers were impacted by the LightSquared signals at very large distances away from the cell phone towers.

11.2.3 Verizon Wireless Summary

Verizon Wireless documented many Timing GPS alarms in their communications equipment during the Las Vegas tests. The report includes detailed GPS alarm logs. Verizon determined that the faults with

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their equipment coincided with the LightSquared emissions broadcast plan. Six Verizon Timing GPS receivers associated with their own cell towers, all within a 1 mile radius of the LightSquared equipment, were rendered inoperable during the signal test periods.

11.2.4 NOAA/NGS Summary

NOAA/NGS also participated in the Las Vegas Field Trial. They reported a wide range of GPS receiver behavior at rural site 53. With some combination of GPS receivers and antennas, they experienced high amounts of GPS fix losses (33-75%). They also measured GPS fix loss out to approximately 4 km from the base station.

Vehicle, cell phones, farming and marine navigation are all negatively affected by the towers. I rely on my GPS while boating on the Chesapeake Bay and Potomac River extensively; particularly at night. I can only guess the hazards this would create between commercial and pleasure boating here and on the Great Lakes.

Please do not let this incursion jeopardize the safety of our waterways.

Sincerely,

John Hamilton, Jr.

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JUL 18 2011

FCC Mail Room July 12, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

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Sincerely,



John Goodman
804-901-1004

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William Beha
7906 Manor House Drive
Fairfax Station, VA 22039-2213

July 13, 2011

Federal Communications Commission
445 12th St., SW
Room TWA325
Washington, DC 20554

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JUL 18 2011

FCC Mail Room

Re: Comments regarding FCC IB Docket No. 11-109, Interference with GPS Signals

Dear Federal Communications Commission:

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Last year, the federal government shut down the Loran navigation system, making recreational mariners solely reliant on GPS for all electronic navigation needs. Like so many other GPS users around the country, GPS is now integrated into our daily outings, and we look to the FCC to protect the integrity of the GPS signal.

As a senior citizen and motorsailor situated on Chesapeake Bay I rely totally on GPS for navigation, particularly at night. Given the huge shallow areas of the Bay, an exact GPS position prevents me from running aground. It would be dangerous and reckless to destroy the accuracy of GPS because of LightSquared's plan.

Sincerely,



William Beha

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13 July 2011

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Re: Proposed LightSquared Broadband Services

JUL 18 2011

FCC Mail Room

Honorable Julius Genachowski
Chairman
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

11-109

Greetings:

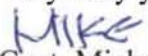
It is my understanding that the FCC-ordered testing of the proposed LightSquared system demonstrated that all phases of the LightSquared deployment plan will result in widespread harmful interference to GPS signals and service, and that mitigation is not possible.

I respectfully urge that FCC not allow the LightSquared proposal to proceed due to anticipated interference with GPS signals.

Most farmers in the Midwest use GPS to control coverage of their fields when applying fertilizers and herbicides, and when initially cultivating the fields for row crops. In fact, the agricultural community has made a very large investment in GPS technology to improve farming methods and to help control costs. Intermittent or periodic interference with GPS signal would cause great harm to the nation's agricultural operations.

Our citizens have come to depend on reliable GPS signals, including for "first responders" in event of emergency events. Please help to assure that the signal remains protected and useful. Thank you.

Very truly yours,


Capt. Michael D. Curry, P.E.
803 South Paul Street, Nashville, IL 62263
mcurry@currvassociates.com

cc: Honorable Richard Durbin
Honorable Mark Kirk
Honorable John Shimkus
file

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